



# 14504 - Constraining the zero-points of the COS/NUV wavelength solution - G225M and G285M

Cycle: 23, Proposal Category: CAL/STIS

(Availability Mode: RESTRICTED)

## INVESTIGATORS

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## VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) HD187691	STIS/CCD STIS/NUV-MAMA	1	29-Jul-2016 13:35:36.0	yes

1 Total Orbits Used

## ABSTRACT

This proposal aims to determine the zero-point offsets of stripes NUVA and NUVB of G225M (2186, 2217, 2233, 2250, 2268, 2283, 2306, 2325, 2339 cenwaves) and stripe NUVC of G285M (3035, 3057, 3074, 3094 cenwaves). The COS data are already available in the archive, taken during SMOV4 as part of programs 11474 and 11900. These data cover the wavelength range 2070-2500 Å (G225M) and 2900-3230 Å (G285M). However, only a STIS E230M/2707, covering 2300-3110 Å is available for wavelength reference. Thus, for NUVA and NUVB of 2186, 2217, 2233, 2250, and for NUVA of 2268, 2283, 2306, 2325, and 2339 zero-points could not be derived during SMOV. A similar situation affects NUVC of the cenwaves 3035, 3057, 3074, and 3094 of the G285M. This program will obtain a STIS E230M/1978 spectrum and a STIS G430M/3165 spectrum to

complement the wavelength coverage of the existing 2707 spectrum and allow us to derive the missing zero-points.

### **OBSERVING DESCRIPTION**

This proposal aims to determine the zero-point offsets of stripes NUVA and NUVB of G225M (2186, 2217, 2233, 2250, 2268, 2283, 2306, 2325, 2339 cenwaves) and stripe NUVC of G285M (3035, 3057, 3074, 3094 cenwaves). The COS data are already available in the archive, taken during SMOV4 as part of programs 11474 and 11900. These data cover the wavelength range 2070-2500 Å (G225M) and 2900-3230 Å (G285M). However, only a STIS E230M/2707, covering 2300-3110 Å is available for wavelength reference. Thus, for NUVA and NUVB of 2186, 2217, 2233, 2250, and for NUVA of 2268, 2283, 2306, 2325, and 2339 zero-points could not be derived during SMOV. A similar situation affects NUVC of the cenwaves 3035, 3057, 3074, and 3094 of the G285M. This program will obtain a STIS E230M/1978 spectrum and a STIS G430M/3165 spectrum to complement the wavelength coverage of the existing 2707 spectrum and allow us to derive the missing zero-points.

Proposal 14504 - Visit 01 - Constraining the zero-points of the COS/NUV wavelength solution - G225M and G285M

Fri Jul 29 17:35:37 GMT 2016

Visit	<b>Proposal 14504, Visit 01, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: SCHED 100%									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	HD187691	RA: 19 51 1.6440 (297.7568500d) Dec: +10 24 56.60 (10.41572d) Equinox: J2000	Proper Motion RA: 242.28 mas/yr Proper Motion Dec: -136.48 mas/yr Epoch of Position: 2000	V=5.1	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (STIS.ta.814 534)	(1) HD187691	STIS/CCD, ACQ, F25ND5	MIRROR				4 Secs (4 Secs)	
									[==>]	[1]
	2	E230M/1978 (STIS.sp.81 8437)	(1) HD187691	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 1978 A				1161 Secs (1161 Secs)	
								[==>]	[1]	
	3	G430M (STIS.sp.81 4546)	(1) HD187691	STIS/CCD, ACCUM, 52X0.2	G430M 3165 A	CR-SPLIT=4			5.2 Secs (5.2 Secs)	
								[==>(Split 1)]		
								[==>(Split 2)]		
								[==>(Split 3)]		
								[==>(Split 4)]		[1]

